LISTING OF CLAIMS

- 1. (Previously presented) An apparatus, comprising:
- a first device to transmit at a first frequency;
- a first PN generator to generate a first PN sequence at a first offset;
- a first spreader to receive and spread a first pilot data with the first PN sequence;
- a second device to transmit at a second frequency;
- a second PN generator to generate a second PN sequence at a second offset, wherein the first PN sequence is generated from equations different from equations used to generate the second PN sequence; and
- a second spreader to receive and spread a second pilot data with the second PN sequence.
- 2. (Previously Presented) The apparatus of claim 1, wherein the first frequency uses a different CDMA format than the second frequency.
- 3. (Original) The apparatus of claim 2, wherein the first frequency is generated from a first CDMA format chosen from the group consisting of PCS, IS-95, IS-98, WCDMA, UTRA, IS-2000 and CDMA 2000, the second frequency is generated from a second CDMA format chosen from the group consisting of PCS, IS-95, IS-98, WCDMA, UTRA, IS-2000 and CDMA 2000 and wherein, the first CDMA format is different from the second CDMA format.
 - 4. (Canceled)
- 5. (Original) The apparatus of claim 1, wherein the first PN generator is capable of generating a sequence based on characteristic polynomials comprising:

$$P_{IA} = x^{15} + x^{13} + x^9 + x^8 + x^7 + x^5 + 1$$
, and

$$P_{0:1} = x^{15} + x^{12} + x^{14} + x^{10} + x^{6} + x^{5} + x^{4} + x^{3} + 1$$
.

6. (Original) The apparatus of claim 1, wherein the second PN generator is capable of generating a sequence based on characteristic polynomials comprising:

$$P_{1,2} = x^{15} + x^{10} + x^8 + x^7 + x^6 + x^2 + 1$$
, and

$$P_{0,2} = x^{15} + x^{12} + x^{11} + x^{10} + x^{9} + x^{5} + x^{4} + x^{3} + 1$$
.

7-11. (Cancelled)

12. (Previously presented) A method, comprising:

generating a first PN sequence at a first offset;

spreading a first pilot data with the first PN sequence;

generating a second PN sequence at a second offset, wherein the first PN sequence is generated from equations different from equations used to generate the second PN sequence; and

spreading a second pilot data with the second PN sequence.

13. (Previously Presented) The method of claim 12, wherein generating the first PN sequence is based on characteristic polynomials comprising:

$$P_{11} = x^{15} + x^{13} + x^9 + x^8 + x^7 + x^5 + 1$$
, and

$$P_{Q\Pi} = x_{\rm c}^{15} + x^{12} + x^{11} + x^{10} + x^6 + x^5 + x^4 + x^3 + 1 \ . \label{eq:pqH}$$

14. (Previously Presented) The method of claim 12, wherein generating the second PN sequence is based on characteristic polynomials comprising:

$$P_{1/2} = x^{15} + x^{10} + x^8 + x^7 + x^6 + x^2 + 1$$
, and

$$P_{Q(2)} = x^{15} + x^{12} + x^{11} + x^{10} + x^9 + x^5 + x^4 + x^3 + 1$$
.

15. (Previously presented) An apparatus, comprising:

means for generating a first PN sequence at a first offset;

means for spreading a first pilot data with the first PN sequence;

means for generating a second PN sequence at a second offset, wherein the first PN sequence is generated from equations different from equations used to generate the second PN sequence; and

means for spreading a second pilot data with the second PN sequence.

16. (Previously Presented) The apparatus of claim 15, wherein generating the first PN sequence is based on characteristic polynomials comprising:

$$P_{LV} = x^{15} + x^{13} + x^{9} + x^{8} + x^{7} + x^{5} + 1$$
, and

$$P_{O,1} = x^{(15)} + x^{12} + x^{11} + x^{10} + x^6 + x^5 + x^4 + x^3 + 1$$
.

17. (Previously Presented) The apparatus of claim 15, wherein generating the second PN sequence is based on characteristic polynomials comprising:

$$P_{I,2} = x^{15} + x^{10} + x^8 + x^7 + x^6 + x^2 + 1$$
 , and

$$P_{Q,2} = x^{15} + x^{12} + x^{11} + x^{10} + x^{9} + x^{5} + x^{4} + x^{3} + 1 \ .$$